

a pressurized gas source for supplying said hyperbaric oxygen;

an oxygenator for receiving said hyperbaric oxygen;

a perfusate for absorbing said hyperbaric oxygen within said oxygenator; and

a fluid delivery tube attached to said oxygenator;

whereby oxygenated perfusate is delivered to said biological entity through said fluid delivery tube.

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16. The system as defined in Claim 15, further including a metabolic supplement, whereby said metabolic supplement is added to said perfusate for delivery to said biological entity.

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17. The system as defined in Claim 16, further including means for monitoring the effect of said metabolic supplement on said biological entity.

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18. The system as defined in Claim 15, wherein said oxygenated perfusate contains at least 4.5 volume percent oxygen.

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19. The system as defined in Claim 15, further including a temperature control unit whereby the temperature of said perfusate and said biological entity can be regulated from approximately 0 degrees centigrade to approximately 40 degrees centigrade.

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20. The system as defined in Claim 15, wherein said perfusate contains biological entity waste products and said system further comprises a biological filter for removal of said biological entity waste products.

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21. The system as defined in Claim 15, further including a perfusate container for holding said biological entity and a quantity of said perfusate within said vessel.

9 11  
22. The system as defined in Claim 15, further including means for pumping said perfusate.